SEQUENCE LISTING

```
<110> Falco, S. Carl
       Cahoon, Rebecca E.
       Rafalski, J. Antoni
<120> Vitamin B Metabolism Proteins
<130> BB-1201
<140>
<141>
<150>
       60/096,342
<151> August 12, 1998
<160>
       16
<170> Microsoft Office 97
<210> 1
<211> 933
<212> DNA
<213> Zea mays
<400> 1
atggcgcggc cgccgatcct atccgtcgcg ctgccgtctg acaccggccg tgtgctcagc 60
atccagtece acacegteca ggggtatgtt ggcaacaaat cggccgtett teecetgcag 120
ctccttggct ttgatgtgga tccaataaac tctgtacagt tttctaatca tacaggatac 180
ccaacattta gaggtcaggt tcttaatggc aaacagctct gggaccttat tgaaggactg 240
gaggaaaatc agttgettea ttatacccat ttattaacag gttatatagg ctcagtttcc 300
tttttagata ctgtgctaca agttgttgag aaattgcgat cagttaatcc tgatcttgta 360
tatgtttqtg acccagttct aggtgatgaa ggaaaactat atgttcctca ggaggtaata 420
totgtttatc aacagaaggt tgttccagtt gcttcaatgc ttacacctaa ccaatttgaa 480
gttgaactac ttactggatt gaggatcacc tccgaagaag atggtttgac agcttgtaat 540
accetecaca gtgccggacc acagaaggtg gttataacta gtgctcttat tgaaggtaag 600
ctgctcctta tcggaagtca caaaaaaaca gaggaacaac agccagaaca atttaagatt 660
qaqataccaa agatacctgc atatttcacg ggaactggag atttgacaac tgctctccta 720
ctaggatgga gtaataaata teetgatage etegagaaag cagcagaact ggeagtttee 780
agtitiquagg cacttotgaa aagaactgtg gaagactata aaatggccgg cttcgaccca 840
togaccagca gettagagat coggttgatc caaagccagg acgagatccg aaacccaact 900
gttacatgca aggctgtgaa gtatggaagc tga
<210>
<211> 310
<212> PRT
<213> Zea mays
Met Ala Arg Pro Pro Ile Leu Ser Val Ala Leu Pro Ser Asp Thr Gly
Arg Val Leu Ser Ile Gln Ser His Thr Val Gln Gly Tyr Val Gly Asn
Lys Ser Ala Val Phe Pro Leu Gln Leu Leu Gly Phe Asp Val Asp Pro
```

Ile Asn Ser Val Gln Phe Ser Asn His Thr Gly Tyr Pro Thr Phe Arg

<220> <221> unsure <222> (380)

Gly Gln Val Leu Asn Gly Lys GIn Leu Trp Asp Leu Ile Glu Gly Leu Glu Glu Asn Gln Leu Leu His Tyr Thr His Leu Leu Thr Gly Tyr Ile Gly Ser Val Ser Phe Leu Asp Thr Val Leu Gln Val Val Glu Lys Leu Arg Ser Val Asn Pro Asp Leu Val Tyr Val Cys Asp Pro Val Leu Gly Asp Glu Gly Lys Leu Tyr Val Pro Gln Glu Val Ile Ser Val Tyr Gln Gln Lys Val Val Pro Val Ala Ser Met Leu Thr Pro Asn Gln Phe Glu 155 Val Glu Leu Leu Thr Gly Leu Arg Ile Thr Ser Glu Glu Asp Gly Leu 170 Thr Ala Cys Asn Thr Leu His Ser Ala Gly Pro Gln Lys Val Val Ile Thr Ser Ala Leu Ile Glu Gly Lys Leu Leu Ile Gly Ser His Lys Lys Thr Glu Glu Gln Gln Pro Glu Gln Phe Lys Ile Glu Ile Pro Lys Ile Pro Ala Tyr Phe Thr Gly Thr Gly Asp Leu Thr Thr Ala Leu Leu 235 Leu Gly Trp Ser Asn Lys Tyr Pro Asp Ser Leu Glu Lys Ala Ala Glu Leu Ala Val Ser Ser Leu Gln Ala Leu Leu Lys Arg Thr Val Glu Asp Tyr Lys Met Ala Gly Phe Asp Pro Ser Thr Ser Ser Leu Glu Ile Arg Leu Ile Gln Ser Gln Asp Glu Ile Arg Asn Pro Thr Val Thr Cys Lys Ala Val Lys Tyr Gly Ser <210> 3 <211> 413 <212> DNA <213> Oryza sativa

```
<220>
<221>
      unsure
<222>
       (384)
<220>
<221>
       unsure
<222>
       (388)
<220>
<221>
       unsure
<222>
       (410)
<400>
       3
gtttaaacaa qaaqatqqct tgaaaqcttq caatqcqcta cataqtqctq qaccqcqaaa 60
ggtggtaata actagtgcac ttattgaaga taagctgctc ctcattggaa gccacaaaaa 120
agcaaaggaa caaccaccag aacaatttaa gattgagata cccaagatac ctgcatattt 180
cacgggcact ggagatttaa caactgccct tctactagga tggagtaata aataccctqa 240
taacettgga gagggegetg aactggeggt atccatttgc aaggcacece taaggagaac 300
tgtggaagac tataaaagac tgggtttgac cctccaacca acacctagag atccgcctgg 360
attcaaaacc aaggatgaan tccnaagncc caagatacat gcaagctgtn aaa
<210>
<211>
      136
<212> PRT
<213> Oryza sativa
<220>
<221>
      UNSURE
<222> (127)..(128)..(129)
<400> 4
Phe Lys Gln Glu Asp Gly Leu Lys Ala Cys Asn Ala Leu His Ser Ala
Gly Pro Arg Lys Val Val Ile Thr Ser Ala Leu Ile Glu Asp Lys Leu
Leu Leu Ile Gly Ser His Lys Lys Ala Lys Glu Gln Pro Pro Glu Gln
Phe Lys Ile Glu Ile Pro Lys Ile Pro Ala Tyr Phe Thr Gly Thr Gly
Asp Leu Thr Thr Ala Leu Leu Gly Trp Ser Asn Lys Tyr Pro Asp
Asn Leu Gly Glu Gly Ala Glu Leu Ala Val Ser Ile Cys Lys Ala Pro
Leu Arg Arg Thr Val Glu Asp Tyr Lys Arg Leu Gly Leu Thr Leu Gln
Pro Thr Pro Arg Asp Pro Pro Gly Phe Lys Thr Lys Asp Glu Xaa Xaa
        115
Xaa Pro Lys Ile His Ala Ser Cys
    130
<210> 5
<211> 812
```

<212> <213>	DNA Glycine max
<220> <221> <222>	unsure (577)
<220> <221> <222>	unsure (610)
<220> <221> <222>	unsure (683)
<220> <221> <222>	unsure (687)
<220>	unsure (742)
<220>	unsure (744)
<220>	unsure (746)
<220>	unsure (755)
<220>	unsure (760)
<220>	unsure (769)
<220>	unsure (778)
<2205	unsure (785)(786)
<220>	unsure (792)
<220>	unsure (804)

```
<400> 5
qcacqaqqaq cattttccqq qcacqaaact cqaqqaattc qcqcatqqcq cctccaatcc 60
totogetoge tettecetog aacaceggte gagtteteag catteaatet cacacegtte 120
aggggtatgt tggtaataaa tccgctgtct tccctctgca actactggga tatgatgtcg 180
atccaattaa ttccgtgcag ttttcgaatc atacaggata tccgacgttt aagggtcagg 240
ttttqaatgq acagcaactc tgqqatctaa tcgaaggcct tgaaggaaat gatttattgt 300
totatactca ottgotaaca ggttatattg gttcagagtc ttttctaaac actgtattgc 360
aagttgtcag caaacttcgg tcaacaaacc caggtctttc gtatgtatgt gatccagtga 420
tgggtgatga aggaaagett tatgtteete aagagetagt atcagtetat egtgagaagg 480
ttgttccagt agcttcaatg ttgactccca accagtttga agcagaacta ctgacaggct 540
ttaggattca gtctgaagga catggccggg aggctgntag gcttctccat gcagctgggc 600
cttcaaaggn cataattaca agtataaata tagacgggat tcttctcctc attggcagtc 660
atccaaaaga aaagggagag concoongac aatttaagat tgttattoca aaaataacca 720
gettatttta egggaaeggg ananencatg aetgnatten tettggttng ageataanta 780
cccannacaa ancttgagaa tgcngcggaa ct
<210>
       6
<211>
       196
<212>
       PRT
<213> Glycine max
<220>
<221>
       UNSURE
<222>
       (178)
<220>
<221>
       UNSURE
<222>
       (189)
<400>
Met Ala Pro Pro Ile Leu Ser Leu Ala Leu Pro Ser Asn Thr Gly Arq
Val Leu Ser Ile Gln Ser His Thr Val Gln Gly Tyr Val Gly Asn Lys
Ser Ala Val Phe Pro Leu Gln Leu Leu Gly Tyr Asp Val Asp Pro Ile
Asn Ser Val Gln Phe Ser Asn His Thr Gly Tyr Pro Thr Phe Lys Gly
Gln Val Leu Asn Gly Gln Gln Leu Trp Asp Leu Ile Glu Gly Leu Glu
Gly Asn Asp Leu Leu Phe Tyr Thr His Leu Leu Thr Gly Tyr Ile Gly
Ser Glu Ser Phe Leu Asn Thr Val Leu Gln Val Val Ser Lys Leu Arg
Ser Thr Asn Pro Gly Leu Ser Tyr Val Cys Asp Pro Val Met Gly Asp
Glu Gly Lys Leu Tyr Val Pro Gln Glu Leu Val Ser Val Tyr Arg Glu
                        135
Lys Val Val Pro Val Ala Ser Met Leu Thr Pro Asn Gln Phe Glu Ala
145
                    150
                                        155
```

```
Glu Leu Leu Thr Gly Phe Arg Ile Gln Ser Glu Gly His Gly Arg Glu
Ala Xaa Arg Leu Leu His Ala Ala Gly Pro Ser Lys Xaa Ile Ile Thr
                                185
Ser Ile Asn Ile
        195
<210>
      7
      773
<211>
<212>
      DNA
<213> Triticum aestivum
<400> 7
atggegegge egeogateet ateegtegeg etgeegtetg acaceggeeg tgtgeteage 60
atocagtocc acacegtoca ggggtatgtt ggcaacaaat cggccgtctt tcccctgcag 120
ctccttggct ttgatgtgga tccaataaac tctgtacagt tttctaatca tacaggatac 180
ccaacattta gagggtcagt tcttaatggc aaacagctct gggaacttat tgaaggactg 240
gaggaaaatc agctgcttca ttatacccat ttattaacag gttatatagg ctcagtttcc 300
tttttagata ctgtgctaca agttgttgag aaattgcgat cagttaatcc tgatcttgta 360
tatgtttgtg acccagttct aggtgatgaa ggaaaactat atgttcctca ggagctaata 420
totqtttatc aacagaaggt tgttccagtt gcttcaatgc ttacacctaa ccaatttgaa 480
gttgaactac ttactggatt gaggatcacc tccgaagaag atggtttgac agcttgtaat 540
accetecaca gtgccggacc acagaaggtg gttataacta gtgctcttat tgaaggtaag 600
ctgctcctta tcggaagtca caaaaaaaca gaggaacaac agccagaaca atttaagatt 660
gagataccaa agatacetge atatttcacg ggaactggag atttgacaac tgctctccta 720
ctaggatgga gtaataaata teetgatate etegaggggg ggeegtacca aat
<210> 8
<211> 256
<212> PRT
<213> Triticum aestivum
<400> 8
Met Ala Arg Pro Pro Ile Leu Ser Val Ala Leu Pro Ser Asp Thr Gly
Arg Val Leu Ser Ile Gln Ser His Thr Val Gln Gly Tyr Val Gly Asn
```

Met Ala Arg Pro Pro Ile Leu Ser Val Ala Leu Pro Ser Asp Thr Gly
1 1 2 5 8 7 8 8 7 8 7 8 7 8 7 8 7 8 8 7 8 8 7 8 8 7 8

120

115

<220> <221>

<221> UNSURE <222> (25)

```
Asp Glu Gly Lys Leu Tyr Val Pro Gln Glu Leu Ile Ser Val Tyr Gln
                        135
Gln Lys Val Val Pro Val Ala Ser Met Leu Thr Pro Asn Gln Phe Glu
                                        155
Val Glu Leu Leu Thr Gly Leu Arg Ile Thr Ser Glu Glu Asp Gly Leu
                165
Thr Ala Cys Asn Thr Leu His Ser Ala Gly Pro Gln Lys Val Val Ile
Thr Ser Ala Leu Ile Glu Gly Lys Leu Leu Leu Ile Gly Ser His Lys
                            200
Lys Thr Glu Glu Gln Gln Pro Glu Gln Phe Lys Ile Glu Ile Pro Lys
                        215
Ile Pro Ala Tyr Phe Thr Gly Thr Gly Asp Leu Thr Thr Ala Leu Leu
225
                    230
Leu Gly Trp Ser Asn Lys Tyr Pro Asp Ile Leu Glu Gly Gly Tyr Gln
                                    250
                245
<210>
       9
       828
<211>
<212>
       DNA
<213>
       Zea mays
<220>
<221>
       unsure
<222>
       (74)
<400>
atgctggtgt cattgactgc acctaagete tgtgcaaaaa agttcactgg cccacaccat 60
tttcttgggg gaangtttgt cccccacct attttaaacc aattacggga cttcagctcc 120
teetttacee tgggcacate aatgtgtgtg agaattggaa aageteeate tgttgaaatt 180
tcatctctca gggagaacta tatttcccct gaacttcttg agagtcaagt gatgtctgat 240
ccatttgatc agttccttaa atggtttgat gaagcagtaa cagccggtcc cggtctgcgt 300
gageceaatg caatggettt gaeaactgee aacaaggaag gaaaacette ttegaggatg 360
gttettttaa agggagttga taaacaggga tttgtttggt atacaaatta tggtageegg 420
aaggogcatg acttgtgtga aaaccctaac gcagcactcc ttttctactg gaatgagatg 480
aaccgtcagg taagagttga agggtcagtt gagaaggttc cagaagctga atcagataaa 540
tatttccaca gccgcccacg tggaagtcag cttggtgcca tagtcagcaa gcagagtact 600
gtaattgctg gaagagaagt tettcaacag gattacaaga aattggaaca aaaatattet 660
gatgggaget tgattecaaa acctgaatat tggggtgget acaaattgac accgacactt 720
tttgagttct ggcaaggaca acagtctcga ctgcatgacc ggttacaata ctcgcagaga 780
gaagtagatg ggagcacagt gtggcacatc gagaggttgt ccccttga
                                                                  828
<210>
      10
      275
<211>
      PRT
<212>
<213>
      Zea mays
```

<400> 10 Met Leu Val Ser Leu Thr Ala Pro Lys Leu Cys Ala Lys Lys Phe Thr Gly Pro His His Phe Leu Gly Gly Xaa Phe Val Pro Pro Pro Ile Leu Asn Gln Leu Arg Asp Phe Ser Ser Ser Phe Thr Leu Gly Thr Ser Met Cys Val Arg Ile Gly Lys Ala Pro Ser Val Glu Ile Ser Ser Leu Arg Glu Asn Tyr Ile Ser Pro Glu Leu Leu Glu Ser Gln Val Met Ser Asp Pro Phe Asp Gln Phe Leu Lys Trp Phe Asp Glu Ala Val Thr Ala Gly Pro Gly Leu Arg Glu Pro Asn Ala Met Ala Leu Thr Thr Ala Asn Lys Glu Gly Lys Pro Ser Ser Arg Met Val Leu Leu Lys Gly Val Asp Lys Gln Gly Phe Val Trp Tyr Thr Asn Tyr Gly Ser Arg Lys Ala His Asp Leu Cys Glu Asn Pro Asn Ala Ala Leu Leu Phe Tyr Trp Asn Glu Met Asn Arg Gln Val Arg Val Glu Gly Ser Val Glu Lys Val Pro Glu Ala Glu Ser Asp Lys Tyr Phe His Ser Arg Pro Arg Gly Ser Gln Leu Gly Ala Ile Val Ser Lys Gln Ser Thr Val Ile Ala Gly Arg Glu Val Leu Gln Gln Asp Tyr Lys Lys Leu Glu Gln Lys Tyr Ser Asp Gly Ser Leu 210 Ile Pro Lys Pro Glu Tyr Trp Gly Gly Tyr Lys Leu Thr Pro Thr Leu Phe Glu Phe Trp Gln Gly Gln Gln Ser Arg Leu His Asp Arg Leu Gln Tyr Ser Gln Arg Glu Val Asp Gly Ser Thr Val Trp His Ile Glu Arg Leu Ser Pro

Leu Ser Pro 275

<210> 11

<211> 555

<212> DNA

<213> Oryza sativa

<220>	
<221> <222>	unsure (220)
<220> <221> <222>	unsure (249)
<220> <221> <222>	unsure (353)
<220> <221> <222>	unsure (356)
<220> <221> <222>	unsure (382)
	unsure (388)
<220> <221> <222>	unsure (393)
<220> <221> <222>	unsure (426)
<220> <221> <222>	unsure (430)
<220> <221> <222>	unsure (434)
<220> <221> <222>	unsure (437)
<220> <221> <222>	unsure (473)
<220> <221> <222>	unsure (475)
<220> <221> <222>	unsure (502)
<220> <221> <222>	unsure (506)

```
<220>
<221>
       unsure
       (519)
<222>
<220>
<221>
       unsure
<222>
       (524)
<220>
<221>
       unsure
<222>
       (532)
<220>
<221>
      unsure
      (536) .. (537)
<222>
<220>
<221>
       unsure
<222>
       (545)
<220>
<221>
       unsure
<222>
       (549)
<220>
<221>
       unsure
<222>
       (551)
<400>
      11
atgctggtat cattgactgc accaaagctc tgtgcaaaaa aatttaccgg tccacaccat 60
tttcttgggg gtagatttgt tcccccacct attgtgagca aatataagct tcatcttcct 120
ccatatcccg gtacctcaat gtgtgtgaga attggaaaag ctccatctgt tgacatttca 180
tototaagaa qaaattacat otoocotgaa ottotogagn aacaggtgat gootgatoca 240
tttgataant tcgttagatg gtttgatgaa ctgttacgct ggctacgtga accaaatgct 300
atggttaaca actoogataa ggagggaaaa ottogcaaag aatggcottt aanggngttg 360
ataaccacgg attttttggg ancaattntg ganccaaaag gacatgatta cctgaaacca 420
aatgengeen gttneantgg aaggaataac ggeagtaaaa taaagtetgt canangteea 480
gaaaagactg agatttcaaa cnccanagga ataacttgng aatntcacac angcannoat 540
ctganggant ncagg
<210> 12
<211>
      110
<212>
      PRT
<213> Oryza sativa
<220>
<221>
       UNSURE
<222>
       (74)
<220>
<221>
       UNSURE
<222>
       (83)
<400> 12
Met Leu Val Ser Leu Thr Ala Pro Lys Leu Cys Ala Lys Lys Phe Thr
 1
Gly Pro His His Phe Leu Gly Gly Arg Phe Val Pro Pro Pro Ile Val
                                 25
             20
```

```
Ser Lys Tyr Lys Leu His Leu Pro Pro Tyr Pro Gly Thr Ser Met Cys 35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}
```

Val Arg Ile Gly Lys Ala Pro Ser Val Asp Ile Ser Ser Leu Arg Arg 50 55 60

Asn Tyr Ile Ser Pro Glu Leu Leu Glu Xaa Gln Val Met Pro Asp Pro 65 70 75 80

Phe Asp Xaa Phe Val Arg Trp Phe Asp Glu Leu Leu Arg Trp Leu Arg 85 90 95

Glu Pro Asn Ala Met Val Asn Asn Ser Asp Lys Glu Gly Lys 100 105 110

<210> 13 <211> 864

<211> 004 <212> DNA

<213> Glycine max

<400> 13

atgttgaaaa qqqaaqatgt tqatqqtaca qqcattaaac ctgatatgtt qqtttctttq 60 acaqccccaa gattaggtgc aaagaagttt ggtggtcctc accactttct aggaggtaga 120 tttgtcccac ctgctattgc agaaaaatat aagcttatac ttccaccata tcctggaact 180 tocatgtgtg ttcgaattgg aaggcctcca cgtattgata tctcagctct aagagagaac 240 tatatctctc cagaatttct tqaaqagcag gtggaggctg acccttttaa tcagtttcat 300 aaatggttta atgatgcatt ggctgctggt ttgaaggaac caaatgctat gtccttgtca 360 actgtaggga aggacggaaa accctcatca agaatggtat tgctaaaagg cttggataag 420 gaaggatttg tgtggtacac aaactatgaa agtcgaaagg cacgtgaatt atctgaaaat 480 ccacqtqcat cacttettt ttactqqqat qqtttaaacc qqcaqqtacq qqtqqaaqqq 540 cctgttcaga aagtctctga tgaggaatca gaacagtatt tccatagccg ccctagaggt 600 agtcagattg gagcaatagt cagcaagcag agtactgtag tgccgggtag gcatgttctt 660 tatcaggagt acaaagagct ggaagaaaa tactctgatg gaagtttaat ccctaaacct 720 aaqaactqqq qtqqatataq qctaacacca caacttttcq aqttttgqca agggcaqaaa 780 totogottgc atgacaggtt gcaatatact coccatgaga toaatggaca acggetgtgg 840 aaggttgacc ggttggctcc ttga 864

<210> 14 <211> 287

<212> PRT <213> Glycine max

<400> 14

Met Leu Lys Arg Glu Asp Val Asp Gly Thr Gly Ile Lys Pro Asp Met 1 $$ 5 $$ 10 $$ 15

Leu Val Ser Leu Thr Ala Pro Arg Leu Gly Ala Lys Lys Phe Gly Gly 20 25 30

Pro His His Phe Leu Gly Gly Arg Phe Val Pro Pro Ala Ile Ala Glu
35 45

Lys Tyr Lys Leu Ile Leu Pro Pro Tyr Pro Gly Thr Ser Met Cys Val

Lys Tyr Lys Leu Ile Leu Pro Pro Tyr Pro Gly Thr Ser Met Cys Val 50 60

Arg Ile Gly Arg Pro Pro Arg Ile Asp Ile Ser Ala Leu Arg Glu Asn 65 70 75 80

Tyr Ile Ser Pro Glu Phe Leu Glu Glu Glu Val Glu Ala Asp Pro Phe

```
Asn Gln Phe His Lys Trp Phe Asn Asp Ala Leu Ala Ala Gly Leu Lys
Glu Pro Asn Ala Met Ser Leu Ser Thr Val Gly Lys Asp Gly Lys Pro
Ser Ser Arg Met Val Leu Leu Lys Gly Leu Asp Lys Glu Gly Phe Val
Trp Tyr Thr Asn Tyr Glu Ser Arg Lys Ala Arg Glu Leu Ser Glu Asn
Pro Arg Ala Ser Leu Leu Phe Tyr Trp Asp Gly Leu Asn Arg Gln Val
Arg Val Glu Gly Pro Val Gln Lys Val Ser Asp Glu Glu Ser Glu Gln
Tyr Phe His Ser Arg Pro Arg Gly Ser Gln Ile Gly Ala Ile Val Ser
Lys Gln Ser Thr Val Val Pro Gly Arg His Val Leu Tyr Gln Glu Tyr
    210
Lys Glu Leu Glu Glu Lys Tyr Ser Asp Gly Ser Leu Ile Pro Lys Pro
225
Lys Asn Trp Gly Gly Tyr Arg Leu Thr Pro Gln Leu Phe Glu Phe Trp
                245
Gln Gly Gln Lys Ser Arg Leu His Asp Arg Leu Gln Tyr Thr Pro His
Glu Ile Asn Gly Gln Arg Leu Trp Lys Val Asp Arg Leu Ala Pro
                            280
                                                285
<210>
       15
<211>
       456
<212>
       DNA
<213> Triticum aestivum
<400> 15
cacgaggata agcagggatt cgtttggtac acaaattacg gtagccaaaa agcacatgat 60
ttatoggaaa attoaaatgo ggcacttott ttotactgga atgagatgaa cogacaggtt 120
agagtagaag ggtcggttca gaaggtctca gaagaagaat ctgagaagta tttccacagc 180
cgcccacgtg gaagtcagct tggtgcaatt gttagcaagc agagcactgt catttcttga 240
agagaaqttc tccaacaagc gtacaaggaa ttggaqcaaa aatattctga cggtagcttc 300
atcccaaaac ccgattactg gggtggctac aagttgacac caaatctttt tgagttctgg 360
caaggccagc agtotogtot goatgacogg ctacagtatt cacagcgaga attaggtggg 420
agtacagaat ggcacatcca aaggttgtcc ccttga
                                                                  456
<210> 16
<211> 150
<212>
      PRT
<213> Triticum aestivum
<400> 16
His Glu Asp Lys Gln Gly Phe Val Trp Tyr Thr Asn Tyr Gly Ser Gln
                                     10
```

Lys Ala His Asp Leu Ser Glu Asn Ser Asn Ala Ala Leu Leu Phe Tyr 20 25 30

Trp Asn Glu Met Asn Arg Gln Val Arg Val Glu Glu Ser Val Gln Lys 35 40 45

Val Ser Glu Glu Glu Ser Glu Lys Tyr Phe His Ser Arg Pro Arg Gly $50 \hspace{1cm} 55 \hspace{1cm} 60 \hspace{1cm}$

Ser Gln Leu Gly Ala Ile Val Ser Lys Gln Ser Thr Val Ile Ser Arg $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Glu Val Leu Gln Gln Ala Tyr Lys Glu Leu Glu Gln Lys Tyr Ser Asp $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Pro Asn Leu Phe Glu Phe Trp Gln Gly Gln Gln Ser Arg Leu His Asp 115 120 125

Arg Leu Gln Tyr Ser Gln Arg Glu Leu Gly Gly Ser Thr Glu Trp His 130 $$135\$

Ile Gln Arg Leu Ser Pro 145 150